Exhibit AD

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Page 1
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                       SUPERIOR COURT OF NEW JERSEY
                       LAW DIVISION - MIDDLESEX COUNTY
 2.
                       DOCKET NO. MID-L-003809-18AS
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      KAYME A. CLARK and
      DUSTIN W. CLARK,
 5
                                         104 HEARING
                                    )
 6
                   Plaintiffs,
                                        TRANSCRIPT OF
                                   )
                                         PROCEEDINGS
 7
            v.
                                         (VOLUME I)
 8
      JOHNSON & JOHNSON, et al.,
 9
      et al.,
10
                   Defendants.
11
12
                   Place: Middlesex County Courthouse
                           56 Paterson Street
13
                           New Brunswick, New Jersey 08903
14
                   Date: May 29, 2024
15
                           9:02 a.m.
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      B E F O R E:
18
            HONORABLE ANA C. VISCOMI, J.S.C.
19
20
21
                   ANDREA F. NOCKS, CCR, CRR
                   PRIORITY ONE
22
                   290 West Mount Pleasant Avenue
                   Livingston, New Jersey 07039
                    (718) 983-1234
23
                   E-mail: plsteno@veritext.com
24
25
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PageID: 188879 Page 42 Page 44 1 but let's first do TEM because it's fairly quick. 1 analyze those samples but it would take me all day So if we then go to slide 12, these 2 so I don't do it. 3 are -- the things below are not chrysotile, they're Q. Okay. We'll talk more about that a 4 amphibole. But within of the things that TEM can do 4 little bit later but... 5 is if you find a particle and you want to know is it And if we look at the reports in 6 talc, is it chrysotile, it can provide you detailed 6 which MAS has claimed to find chrysotile in 7 information on chemistry and on crystal structure to 7 Johnson & Johnson, you can see the names of the 8 identify the proper mineral, correct? 8 people who actually did the analysis, right? 9 9 A. Correct. A. Correct. 10 Q. Okay. In fact, you have said if you 10 Q. And you are never listed as the 11 use a TEM, if you choose to use a TEM, it is fairly 11 analyst? 12 simple to tell whether or not you are, in fact, 12 A. Well, the only people that is listed 13 looking at chrysotile as opposed to talc, right? 13 as the analyst is the person that goes from start to 14 A. Correct. 14 finish. When I sit down or there's a structure that 15 O. Okay. And now let's talk about PLM 15 there's some debate on it and I sit down and look at 16 and the additional dimension that adds and how it 16 it and go through it, I don't put my name down for 17 can then be manipulated as we'll eventually say by 17 one structure. That's not fair. 18 an analyst. 18 Okay. But, again, the analyst would 19 typically be somebody like a Paul Hess, right? 19 Before I get there, though, I want to 20 just talk a little bit about your PLM 20 A. Correct. 21 qualifications. Okay? And so, slide 13. 21 0. Okay. But you, I think you just said 22 Fair to say that as of 2019, which is 22 you feel comfortable answering questions today about 23 right before you started to issue reports claiming 23 PLM dispersion analysis and how it's done at MAS, 24 to find chrysotile in Johnson & Johnson, you said 24 right? 25 that you personally do not do PLM analysis? 25 A. Yes. sir. Page 45 Page 43 Q. Great. 1 A. That's correct. 1 2 2 Q. And, in fact, you said that as of So, let's just start talking about 3 2019 you had never analyzed a sample of talc for the 3 the differences. We've already said it's a fairly 4 presence of asbestos from start to finish using PLM, 4 simple matter to identify chrysotile with TEM. I 5 correct? 5 want to talk a little bit about how to identify A. 6 minerals using PLM dispersion staining. First, 6 Correct. 7 Q. And at least as of 2023, when we last 7 we're just going to walk through a bit of the 8 process before eventually we're going to start 8 asked you, you said you had never taken any classes 9 in the type of PLM analysis we're going to be 9 looking at your images in light of what we have 10 talking about which is referred to as PLM dispersion 10 discussed. Okay? 11 staining, not a single class, right? 11 And so, if we just remind ourselves 12 A. No. sir. 12 first, slide 1 'cause we're going to be talking 13 about one of these topics and I think you agreed 13 Q. So, it's correct you didn't take a 14 with it. 3, PLM analysis starts with the analyst 14 class, right? 15 15 picking the right color and I think you agreed with A. Never taken a class in PLM analysis 16 that, right?

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16 to understand how to identify asbestos in 17 asbestos-added products. 18 You are a self-taught PLM Q.

19 analysis -- analyst, right?

20 Yes, sir. I don't want to sound, you 21 know, braggadocios, but I have a Ph.D. in material

22 science and engineering where you know everything

23 about every type of microscope, et cetera, and

24 typically Ph.D. levels don't take basic PLM classes.

25 I know the science really well on PLM. I could

17 A. I agree.

18 So, I want to start to explain how

19 this works, anybody who's sort of following along

20 from the gallery don't worry, we're going to be

21 going back in each concept multiple times. All

22 right. And we can start out a little bit looking at

23 slide 15 as an example. And I think we were going

24 to introduce as, I guess it's Defense 2, just a copy

25 of the ISO standards that will be D-2, from which

18 refractive index of this particle is based on

22 people always call it magenta.

Okay.

25 this, that's not surprising.

21 we're looking at is in the 1.556 1.557 range and

I would say the majority of what

For a big bundle of chrysotile like

19 looking at it?

Q.

A.

20

23

24

Page 46 Page 48 1 some of this will be drawn. Thank you. 1 0. Okay. But if we go to the next 2 MR. DUBIN: Would Your Honor -- do 2 step, just so you understand the process, slide 3 you want a copy? 3 17 -- sorry, actually, it's slide 16 first. 4 THE COURT: No, I don't need one, but 4 So what the analyst will do is they 5 thank you. 5 will observe the particle under the microscope in 6 MR. DUBIN: No problem. 6 the refractive index oil and they will determine 7 THE COURT: Is D-2 a combination of 7 what color they say they are seeing, right? 8 standards or one standard? 8 A. Correct. MR. DUBIN: It should be one 9 Q. And then the next step on a very 10 standard, Your Honor. 10 basic level, if we go to slide 17, is that that 11 particular color will be associated with a 11 BY MR. DUBIN: 12 So, we're going to be talking a good 12 wavelength of light, right? Q. 13 bit about what colors you should see under a A. 13 Yes. 14 14 microscope for chrysotile, what colors you're Q. And so, here if we take that sort of 15 calling things. I don't want to get there yet. I 15 magenta-y color, that would be approximately 540 16 just want to talk about the process. Okay? 16 nanometers if you're converting it into a wavelength 17 of light, right? 17 And so, what we're looking at here is 18 an image in parallel, and we'll talk about why 18 A. Yeah, 540, 530, right around there. 19 that's significant, of ISO reference chrysotile in 19 Okay. And we can show which it is 20 1.550 oil, right? 20 but the next thing you do, the next step, if we go 21 21 to slide 18, is that you take that wavelength of A. The 1866b NIST standard from Black 22 Lake, Canada, Johns-Manville's source, yes. 22 light and considering what oil you're using and 23 And so, again, just to talk about the 23 temperature and things like that, you can then 24 process, and we'll talk more about this later, when 24 convert it into what's known as a refractive index 25 you do this type of analysis, you have to select a 25 number or RI number, right? Page 47 Page 49 1 refractive index oil, right? A. 1 Yes. 2 2 A. Yes. Q. Okay. And we're going to be working 3 O. And the colors of particles can be 3 with those numbers a good bit today. And there is 4 slightly different depending on which refractive 4 an image here of an individual, Dr. Su, and there 5 index oil you use, right? 5 are tables and methods that are used to perform this A. That is correct. 6 type of analysis that were developed by him, right? 7 7 Q. A. So, we're going to be talking a lot This analysis? 8 about two different periods of your work but right 8 Q. Yes, this kind of PLM dispersion 9 now the refractive index oil that we're going to be 9 staining analysis. 10 focusing on is 1.550 and that's the oil that's used 10 A. No. I would give the credit to 11 for this reference image, right? 11 Dr. Walter McCrone back in the early '70s. 12 A. Yes. 12 Q. You use the Su tables as part of your 13 13 analysis? O. Okay. And so, if we look at the 14 steps that happen, let's assume I'm an analyst and 14 A. Yes. He gives them out when he 15 I'm looking down the microscope and I see this 15 audits your lab. So, we have them there. The 16 structure, let me first ask you: What would you 16 analyst, especially Mr. Hess who's been doing this 17 say, and we'll explain what this means, what the 17 for, I don't know, 40 years, but we always use them

19 Q. Do you recognize Dr. Su in this 20 courtroom?

20 Courtiooni:

18 because it's handy.

21 A. I'm trying to remember the last time

22 he came and audited our laboratory.

Q. I mean right there.

A. Right where?

25 Q. Right there. Can you please stand

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1 Q. Well, you and Dr. Su were at a

- 2 conference and you didn't go and talk to him, right?
- A. I never saw Dr. Su. I never knew he
- 4 was there. So, yeah, if I saw Dr. Su, I would have
- 5 asked him about it.
- 6 Q. And one of the things that you have
- 7 criticized in Dr. Su's report is the idea that he
- 8 manipulated your images or Photoshopped your images
- 9 is one of the things you've said, right?
- 10 A. Yes, sir.
- 11 Q. And so, I want to look at those
- 12 images and what he did and what his point was and
- 13 then we'll talk about how it applies to your work.
- 14 But first I just want to understand on a very basic
- 15 level how illumination can impact color which then
- 16 goes into your analysis by which you call the stuff
- 17 you're finding chrysotile.
- And so, let's just start first with
- 19 slide 37 and I made these. I can't see how they
- 20 look. So, I just took, I went and found some
- 21 flowers on Amazon, if anybody likes them, you
- 22 can -- I think it's 14.99 for Forget-Me-Nots, and
- 23 blew up a little bit of the image of some of the
- 24 flowers that are on the Amazon site.
- 25 And then if we go to slide 38, I just

- 1 in the United States never looking at the operative
- 2 microscope. So, I just totally disagree what was
- 3 going on here.
- 4 Q. Okay. So, the failing is that he
- 5 doesn't have an opportunity to observe it through
- 6 your microscope in your view, right?
- 7 A. We have never done anything but have
- 8 it on full brightness.
- 9 Q. One of the things he did is he raised
- 10 the illumination and the image and now, for example,
- 11 and, again, these are the Gold Bond, we'll look at
- 12 some J&J, but now, the yellows are brighter in
- 13 parallel, right, and that's a typical color for talc
- 14 in parallel, that brighter yellow, right?
- 15 A. I would agree.
- 16 Q. Okay. And the other thing that he
- 17 talks about on the next page, page 7, is that just
- 18 by raising the illumination to what he thought was
- 19 an appropriate level, the dark blue particle that
- 20 you're reporting on became a light blue particle in
- 21 the illuminated image, correct?
- A. That is correct.
- Q. Okay.
 - A. You can do all kinds of stuff with
- 25 Photoshop.

24

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- 1 turned down the brightness a little bit on this and
- 2 what we can see is that by reducing brightness on an
- 3 image like this, you can start to turn lighter blues
- 4 into darker blues and those would have, those two5 colors would have different refractive indices,
- 6 right?
- 7 A. Yes.
- 8 Q. And you can also start yellows as it
- 9 gets darker turning into or even if they were bright
- 10 yellow, you can start seeing them turn into darker
- 11 orange, right, for example the center of the flower
- 12 on the bottom, right?
- 13 A. That's correct.
- 14 Q. And so, if we look at what Dr. Su was
- 15 saying about your imaging and its effect on color
- 16 and the effect on the analysis, we can go to page 6
- 17 or page 7 unless I have slides. Is that visible to
- 18 everyone?
- 19 So one of the things that Dr. Su was
- 20 pointing out is that in his view, you did not have
- 21 appropriate or normal illumination of your images,
- 22 right?
- A. Well, that's -- you're right that's
- 24 what he stated. He's wrong. I don't understand how
- 25 he can make that decision in China when we're over

- Q. Well, again, so you're not saying
- 2 that anything has been changed except for brightness
- 3 level here, right?
- 4 A. That's a lot. You're taking evidence
- 5 and you're molding it into what you want to see.
- 6 Q. Well, what he's pointing out is that
- 7 in his view, this is what in normal illumination,
- 8 what you should be seeing under the PLM, the
- 9 brighter images, right?
- 10 A. Well, you keep saying "right."
- 11 That's his opinion but you can't -- at least I
- 12 always thought you can't take evidence and change it
- 13 and say, gee, this is what it would have looked like
- 14 if they did this with absolutely no evidence
- 15 whatsoever that that's true.
- 16 Q. We're going to do the same thing with
- 17 some other images in a second, but before we get
- 18 there, let's show some evidence that it is true.
 - Okay. So, as we pointed out, you
- 20 started looking at Johnson & Johnson for chrysotile
- 21 in about, what, 2019 or late 2019 or early 2020?
 - A. Sometime in 2020.
 - Q. And your first report was the
- 24 Zimmerman report, which we've already marked and
- 25 looked at, right?

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19

22

23

24

Q.

And you stick with it because you've

25 already admitted that if we go to, for example,

Page 110 And, again, so, the key thing is what	Page 112 1 slide 51 you have admitted that for purposes of your
2 does the analyst actually see here as opposed to	2 analysis calling this chrysotile, you have treated
3 what does he report the color is. Okay?	3 this particle in your analysis as if it is the
4 And so if we just go to the plain	4 circle color here, 1.564, right?
	5 A. Yes.
5 image, I guess let's make it an exhibit next. It's	
6 already an exhibit.	
7 Let's just go to the plain image	7 already agreed with me about what color reference
8 first, and it's PDF 3, it's something that's already	8 chrysotile is on the wavelength, right, and that's a
9 in evidence, which is the 2023/02/28 Valadez report.	9 color corresponding to magenta, correct?
10 What D number?	10 A. I haven't agreed with you
MR. HYNES: Eight.	11 Q. Do you agree
MR. DUBIN: D-8, okay.	12 A other than it's an 1866b standard.
13 BY MR. DUBIN:	13 You don't get magenta when you look at other what
14 Q. Let's put just the image itself up	14 people say are chrysotile, such as the SG-210 or the
15 first. Is there a way we can Zoom on that a little	15 RG144 at the smaller sizes, but for asbestos-added
16 bit to make it easier to see?	16 products I totally agree.
Okay. And so, when I first asked you	17 Q. I'm just asking what color it is.
18 about this without using a color bar or without	18 Let's do it more slowly then. Let's go back to
19 doing anything else, you told me that you were	19 slide 15.
20 observing in this particle a brownish gold, correct?	20 And ISO gives refractive index values
21 A. Correct.	21 for these reference samples, right?
Q. Okay. But then you give some data	22 A. That's correct.
23 here if we can scroll back up, we can see RIs.	Q. And do you recall what the reference
24 You give some data at the bottom and there's an RI	24 number is in parallel?
25 number. You see it? You see RI 1564, right?	25 A. I do not.
Page 111	Page 113
1 A. Correct.	1 Q. I mean, we can just we've already
2 Q. And what you're able to do when you	2 marked ISO but do you recall it as 1.556.
3 give us that piece of data is we can do an analysis	3 Otherwise, we can look back at ISO.
4 in reverse to figure out what color your analyst was	4 A. Okay.
5 calling the particle. And so I just want to make	5 Q. What?
6 sure we understand how that works in reverse. So	6 A. I said okay. 7 O. So this is slide 19 we'll just call
7 let's start with slide 46. Actually, we can	7 Q. Bo, this is since 15, we if just can
8 probably go to 47.	8 it up. It's already in. So they're reference
9 Okay. And so, for example, if you	9 values. So, ISO tells you what color it thinks that
10 just give the RI which was 1564, we can consult	10 is, right?
11 the Su tables for the appropriate oil, and if we go	11 A. Yes, for the 1866b.
12 to 4 I can't see if we go to 48, we've done	12 Q. And so, it gives you this number
13 this before, we can see that the color you're	13 1.556, right, correct?
14 calling this is equivalent to the wavelength of	14 A. Correct.
15 light of 560, and if we go to slide 50, we can see	15 Q. And if we look back at Longo slide
16 that that color, the color that you are calling this	16 15, you can see that 1.556 corresponds to this 17 magenta, right?
17 particle for purposes of your analysis calling it	
18 chrysotile is this deeper purple, right? 19 A. It shows it on there but it's a	, , , ,
	19 Q. And so, just comparing the two
20 blend. So that's where that should be should be	20 colors that you're calling this we can go to
21 in my opinion. There really is no purples I'm aware	21 slide 54 you are claiming that this particle that 22 you found in Johnson & Johnson that's on the left is
22 of. But that's where it falls. And I stick with	
23 it.	23 more purple than standard reference chrysotile,

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No, it's not more purple. It's just

24 right?

A.

25

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- 1 a blend of those colors. And you have to be looking
- 2 under the microscope also to dial it in, but it's
- 3 not magenta and has no relationship to these 1866bs.
- 4 Q. And, remember when we were talking
- 5 before that one of the reasons why chrysotile has a
- 6 low birefringence value, for example, is that purple
- 7 is not that far from blue on the color chart, right;
- 8 that's why chrysotile has a low birefringence,
- 9 right?
- 10 A. It has a low birefringence because
- 11 that's the way the crystal is designed.
- 12 Q. But if I'm looking at a yellow
- 13 particle and I treat it as a purple particle, then
- 14 I'm creating low birefringence?
- 15 A. No, we're not creating anything.
- 16 Q. Well, there's no dispute, though, for
- 17 example, if we look at slide 55, that when you do
- 18 this calculation, when you eventually do the
- 19 birefringence calculation that you rely on, the
- 20 input in one of the two numbers that you're using
- 21 for that calculation for this particle will be based
- 22 on the refractive index that's associated with that
- 23 dark purple, right?
- A. That brownish color, yes.
- Q. Okay. And so whatever result you get

- 1 that we looked at, that has the purplish color in 2 it.
- 3 Q. Okay. And the next particle was 003.
- 4 And if we look at that on a color chart, that's
- 5 slide 57, so this is something you're calling
- 6 chrysotile in your Valadez report, right?
- 7 A. Correct.
- 8 Q. And you're treating this in your
- 9 analysis as if it is the circled color, 1.568, which
- 10 is magenta, right?
- 11 A. If you look around the outer edge,
- 12 that fibers there, that's what is being seen.
- 13 Q. Okay. But functionally you're
- 14 basically saying that all of these particles in
- 15 parallel match standard reference chrysotile?
 - A. No, I'm not saying that at all.
- 17 Q. You are treating them as the same
- 18 color or more purple?

16

- 19 A. We're treating them that what it
- 20 shows. Where if you're just taking the outer edge
- 21 or the one where it's being, you know, refracted
- 22 through the outer edge, then -- we started doing
- 23 this after Dr. Bo Li was in our lab doing our last
- 24 NVLAP and we were showing him this materials to look
- 25 at and he said we should use the very, very last,

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- 1 in your birefringence calculation, it's going to be
- 2 based on calling that particle purple?
- A. We're not calling it purple. It's
- 4 got a tint to it and you have to -- you have to know
- 5 that the way these colors work on these crystals,
- 6 you don't get exactly what those charts ever show.
- 7 It's a blend, so I stick with it.
- 8 Q. And so, let's do some of the other
- 9 particles. We can just do it more quickly. We can 10 go to Longo slide 56.
- 11 This is your second particle or CSM
- 12 002 and, again, before I showed it to you on a color
- 13 bar, you told me that it looked brownish gold,
- 14 right?
- 15 A. Now that I'm looking close, I see
- 16 some purple on the outer edge.
- 17 Q. But you also agree that the color
- 18 that you're treating this for, so your refractive
- 19 index you're giving us is 1.565 and if we back that
- 20 out, the color that your analyst is calling this is
- 21 somewhere between that 1.564 purple and the 1.566
- 22 magenta, right?
- A. No, you have to -- it's hard to see
- 24 it here, especially, you know, when you're
- 25 reproducing it. But if you go to the outer edge

- Page 117 1 you know, the very edge, fiber bundle, fibers on
- 2 edge. But I'm not sitting at the microscope and
- 3 this has been copied a few times, so it's kind of
- 4 hard to debate you on it.
- 5 Q. Okay. So, slide 58, just so we can
- 6 get the last particle, this is another particle that
- 7 you're saying has a refractive index range of 1.565
- 8 to 1.568, so the circled range, again, treating this
- 9 particle for your analysis as if it's magenta,
- 10 right?
- 11 A. I wouldn't call it quite magenta, I'd
- 12 call it more purple.
- Q. And, I know one of the things that
- 14 you've -- and you've mentioned it here, if we go
- 15 back to slide 51 for a second, one of the things
- 16 that you said and you tried to say is, well, sure,
- 17 looks yellow, but I see some coloration around the
- 18 edge and you said that again today, right?
 - A. Yes, sir.
- Q. But, even if we look at just this one
- 21 image and we can look at a lot more if we need to,
- 22 there are things around this that are definitely
- 23 talc plates, right? You're not claiming that's all
- 24 chrysotile, these rounded structures, right?
 - A. No, of course not.

19

25

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D.	110 P. 120
1 Q. And so, we see the same kind of red	Page 120 1 THE WITNESS: Thank you.
2 edge effect because of your imaging on the talc	2 THE COURT: Let's meet everyone back
3 plates also, right?	3 here no later than five of one. We're off the
4 A. We have to get it in the same	4 record.
5 orientation but some do, some don't.	5 (Luncheon recess: 11:54 a.m. to
6 Q. And I asked you about that initially	6 12:58 p.m., Eastern Standard Time.)
7 before you started relying on the edge effects to	7
8 call fibers chrysotile, I asked you about these ed	
9 effects and you told me that when you see them	
10 particles, you don't know whether they were just	
11 artifact or not, correct?	11
12 A. When was that?	12
	13
 Q. That was in your Eagles deposition. A. Then that must be correct. 	14
15 Q. Okay. And I asked you whether these	
16 red edges were an artifact and you said maybe, a	17
17 you would have to check if your focus was off,	17
18 right? 19 A. Yes.	19
19 A. Yes. 20 Q. And so if we go back to 51, for	20
21 example, I've already got it up, if you're claiming	
22 to see some sort of edge effect here that you're	22
23 basing your purple color on but it's an artifact,	23
24 then your entire analysis is wrong?	24
25 A. No, this analysis is not wrong. This	25
Pag 1 is chrysotile and I would need to be looking at the	e 119 Page 121 e 1 AFTERNOON SESSION
2 microscope here. I stand by this. It's not wrong.	
3 And we'll get to that more tomorrow, I guess.	3 BY MR. DUBIN:
4 Q. Well, slide 55, as you pointed out,	4 Q. So, just to back up two slides in
5 that if this edge effect that you're basing calling	5 order to make sure we're staying in flow and
6 this color, this purple, if that's just an artifact	6 understand where we are, if we could back up to
7 of the image and not what you need to be focusing	-
8 for dispersion staining, then when you do this	8 So, we were talking about the
9 calculation, you're putting the wrong number in	9 characterization of the colors, which is the first
10 there, it should be the number corresponding to t	
11 yellow?	11 everything that's going to go into the calculation.
12 A. That is not yellow and, you know, if	12 And we were talking about whether this particle that
13 it's this, if it's that. You know, chrysotile, the	13 we're seeing here on screen is or is not truly
14 birefringence can get as high as 0.017. So, it is	14 purple, okay, and that's one of the things we were
15 not wrong.	15 just talking about a moment ago.
16 Q. Okay. So, I'm going to move now to	16 And then if we see again slide 55, we
17 talking about illumination in your Valadez work	_
18 MR. DUBIN: Your Honor, I don't kno	
19 if you prefer me to stop now and pick up after lu	
20 or go on for a little bit, I'm happy either way.	20 example, this first input in the birefringence
21 THE COURT: Do you have any	21 formula, if you say that this particle is purple,
, , , , , , , , , , , , , , , , , , ,	
22 preference, Dr. Longo?	22 then the value for purple goes into that first step.
22 preference, Dr. Longo?23 THE WITNESS: Probably might be a	22 then the value for purple goes into that first step,23 right?